

Focus Area 16: Maternal, Infant, and Child Health

Objective 16-9b targets reduction in repeat Cesarean deliveries among females having low-risk (full-term, singleton, vertex presentation) births to a rate of 63.0 per 100 live births (63.0 percent).

A total of 40,028 repeat Cesarean deliveries among females having low-risk births were reported in 2000, at a rate of 91.5 percent based on data extracted from the Birth Statistical Master Files (Figure 16-9b, Table 16-9b). A total of 55,980 repeat Cesarean deliveries among females having low-risk births were reported at a rate of 94.2 percent in 2005, a significant decline from 2004. NOTE: reporting changes were made to the "Method of Delivery" field and a new field was added for "Fetal Presentation at Birth" on the California birth certificate in 2005 - it is unknown how much of the decline observed between 2004 and 2005 was due to reporting artifacts. California's repeat Cesarean birth rates among females having low-risk births remain significantly higher than the HP2010 objective of 63.0 percent, and this objective is not yet being achieved.

Data by race-ethnicity show that the highest repeat Cesarean birth rates among females having low-risk births were found for American Indians/Alaska Natives in four of the six years examined. In 2005, the highest rate was found for Native Hawaiians/Other Pacific Islanders (94.8 percent), followed by Hispanics/Latinos (94.6 percent). This HP2010 objective is not being achieved for any racial or ethnic group as of 2005.

Examined by age, repeat Cesarean delivery rates among females having low-risk births were significantly increasing for those aged 15-19 years and 20-24 years. Between 2000-2002 repeat Cesarean delivery rates were highest among females aged 35 years and older, but between 2003-2005 rates were highest among females aged 15-19 years. The HP2010 objective of 63.0 percent was not being achieved for any maternal age group as of 2005.

For more information on Cesarean births and maternal risk in California, visit the Maternal and Child Health Branch Web site at:

<http://www.mch.dhs.ca.gov/>

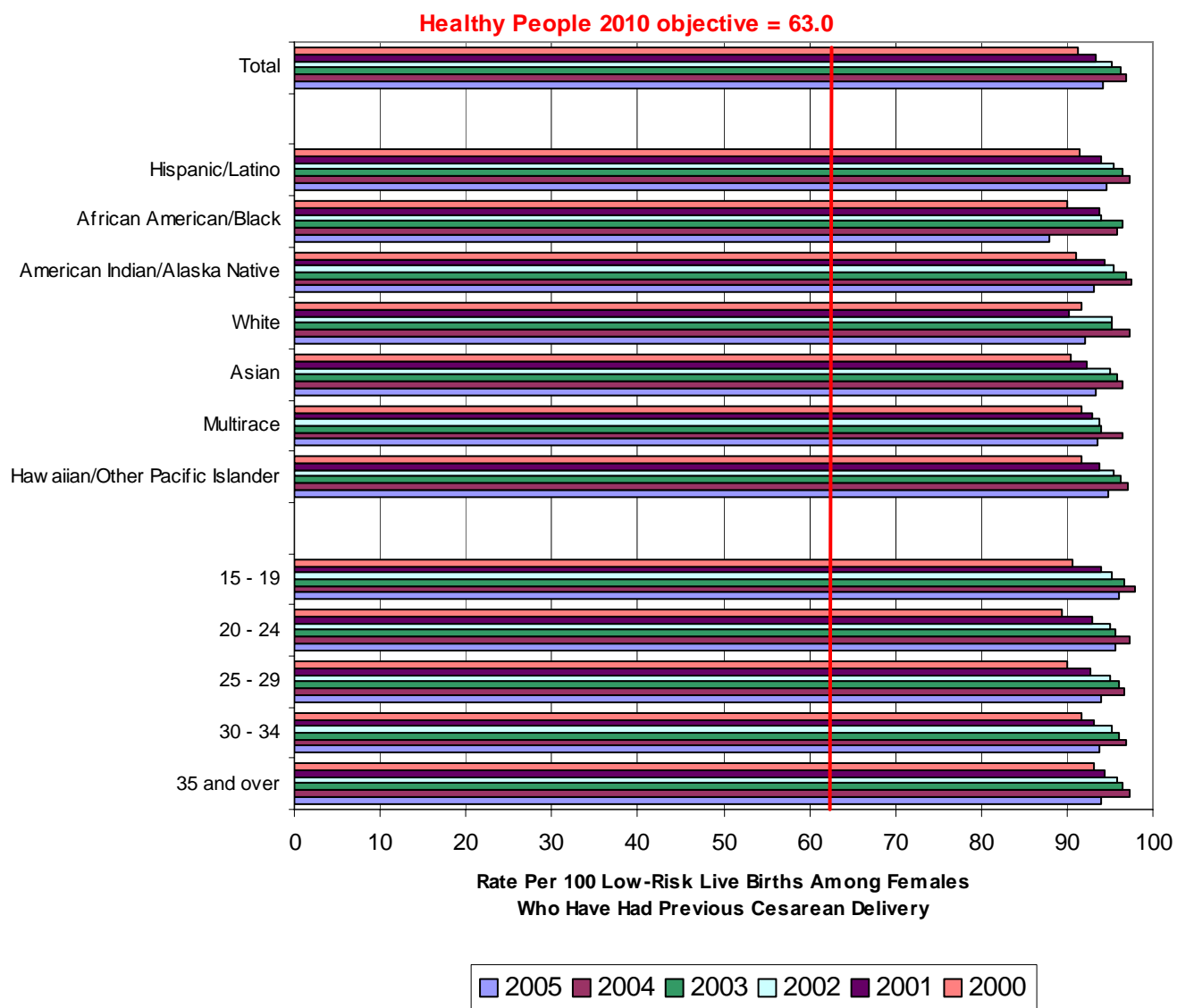
For more information on Healthy People 2010 objective 16-9b please visit:

http://www.healthypeople.gov/Document/HTML/Volume2/16MICH.htm#_Toc494699661

and

<http://www.healthypeople.gov/Document/html/tracking/od16.htm#obstetcare>

Figure 16-9b
Repeat Cesarean Deliveries Among Females Having Low-Risk Births
California, 2000-2005



**Table 16-9b: Repeat Cesarean Deliveries Among Females Having Low-Risk Births
California, 2000-2005**

	2000					2001				
HP2010 Objective 16-9b	Repeat C-Sec ¹	Low-Risk Births ²	Rate ³	Lower C.I. ⁴	Upper C.I. ⁴	Repeat C-Sec ¹	Low-Risk Births ²	Rate ³	Lower C.I. ⁴	Upper C.I. ⁴
Healthy People 2010 Target	63.0					63.0				
Statewide Total	38,921	42,652	91.3	90.3	92.2	42,400	45,437	93.3	92.4	94.2
Race-Ethnicity of Mother										
African American/Black	2,549	2,785	91.5	88.0	95.1	2,588	2,752	94.0	90.4	97.7
American Indian/Alaska Native	166	181	91.7	77.8	105.7	171	184	92.9	79.0	106.9
Asian	3,323	3,647	91.1	88.0	94.2	3,714	3,936	94.4	91.3	97.4
Hawaiian/Other Pacific Islander	173	192	90.1	76.7	103.5	180	192	93.8	80.1	107.4
Hispanic/Latino	20,328	22,149	91.8	90.5	93.0	22,715	24,250	93.7	92.5	94.9
White	11,793	13,052	90.4	88.7	92.0	12,446	13,487	92.3	90.7	93.9
Multirace	373	407	91.6	82.3	100.9	354	392	90.3	80.9	99.7
Maternal Age Group										
Under 15	0	0	0.0	0.0	0.0	0	0	0.0	0.0	0.0
15 - 19	761	839	90.7	84.3	97.1	868	923	94.0	87.8	100.3
20 - 24	5,904	6,602	89.4	87.1	91.7	6,550	7,053	92.9	90.6	95.1
25 - 29	10,068	11,192	90.0	88.2	91.7	10,929	11,780	92.8	91.0	94.5
30 - 34	12,077	13,165	91.7	90.1	93.4	13,117	14,086	93.1	91.5	94.7
35 and over	10,111	10,854	93.2	91.3	95.0	10,936	11,595	94.3	92.5	96.1

SOURCE: California Department of Health Services, Center for Health Statistics, Birth Statistical Master Files, 2000-2001.

NOTES: ¹ Repeat Cesarean sections among California females having "low-risk" (full-term, singleton, vertex presentation) births.

² Live births among California females who had prior Cesarean delivery and are having "low-risk" (full term, singleton, vertex presentation) births.

³ Rate per 100 low-risk live births among females who have had previous Cesarean delivery (percent).

⁴ Ninety-five percent confidence interval (95% C.I.).

Table 16-9b: Repeat Cesarean Deliveries Among Females Having Low-Risk Births, continued
California, 2000-2005

	2002					2003				
HP2010 Objective 16-9b	Repeat C-Sec ¹	Low-Risk Births ²	Rate ³	Lower C.I. ⁴	Upper C.I. ⁴	Repeat C-Sec ¹	Low-Risk Births ²	Rate ³	Lower C.I. ⁴	Upper C.I. ⁴
Healthy People 2010 Target	63.0					63.0				
Statewide Total	46,364	48,656	95.3	94.4	96.2	48,667	50,611	96.2	95.3	97.0
Race-Ethnicity of Mother										
African American/Black	2,683	2,813	95.4	91.8	99.0	2,590	2,684	96.5	92.8	100.2
American Indian/Alaska Native	166	177	93.8	79.5	108.1	154	164	93.9	79.1	108.7
Asian	4,123	4,322	95.4	92.5	98.3	4,581	4,732	96.8	94.0	99.6
Hawaiian/Other Pacific Islander	187	199	94.0	80.5	107.4	191	198	96.5	82.8	110.1
Hispanic/Latino	25,183	26,386	95.4	94.3	96.6	26,659	27,706	96.2	95.1	97.4
White	13,260	13,958	95.0	93.4	96.6	13,622	14,216	95.8	94.2	97.4
Multirace	484	508	95.3	86.8	103.8	469	493	95.1	86.5	103.7
Maternal Age Group										
Under 15	1	1	DSU	-----	-----	0	0	0.0	0.0	0.0
15 - 19	885	930	95.2	88.9	101.4	902	933	96.7	90.4	103.0
20 - 24	7,149	7,525	95.0	92.8	97.2	7,544	7,885	95.7	93.5	97.8
25 - 29	12,023	12,666	94.9	93.2	96.6	12,445	12,943	96.2	94.5	97.8
30 - 34	14,321	15,038	95.2	93.7	96.8	15,051	15,669	96.1	94.5	97.6
35 and over	11,985	12,496	95.9	94.2	97.6	12,725	13,181	96.5	94.9	98.2

SOURCE: California Department of Health Services, Center for Health Statistics, Birth Statistical Master Files, 2002-2003.

NOTES: ¹ Repeat Cesarean sections among California females having "low-risk" (full-term, singleton, vertex presentation) births.

² Live births among California females who had prior Cesarean delivery and are having "low-risk" (full term, singleton, vertex presentation) births.

³ Rate per 100 low-risk live births among females who have had previous Cesarean birth (percent).

⁴ Ninety-five percent confidence interval (95% C.I.).

DSU Data Statistically Unreliable based on small number of events; Relative Standard Error (RSE) > 23.0 percent.

**Table 16-9b: Repeat Cesarean Deliveries Among Females Having Low-Risk Births, continued
California, 2000-2005**

HP2010 Objective 16-9b	2004					2005					2000-2005 Trend ⁵
	Repeat C-Sec ¹	Low-Risk Births ²	Rate ³	Lower C.I. ⁴	Upper C.I. ⁴	Repeat C-Sec ¹	Low-Risk Births ²	Rate ³	Lower C.I. ⁴	Upper C.I. ⁴	
Healthy People 2010 Target	63.0					63.0					
Statewide Total	51,855	53,471	97.0	96.1	97.8	55,980	59,431	94.2	93.4	95.0	ns
Race-Ethnicity of Mother											
African American/Black	2,751	2,829	97.2	93.6	100.9	2,986	3,156	94.6	91.2	98.0	ns
American Indian/Alaska Native	189	196	96.4	82.7	110.2	192	205	93.7	80.4	106.9	ns
Asian	4,926	5,056	97.4	94.7	100.1	5,435	5,829	93.2	90.8	95.7	ns
Hawaiian/Other Pacific Islander	186	194	95.9	82.1	109.7	218	248	87.9	76.2	99.6	ns
Hispanic/Latino	28,672	29,514	97.1	96.0	98.3	31,605	33,331	94.8	93.8	95.9	ns
White	13,987	14,510	96.4	94.8	98.0	14,391	15,421	93.3	91.8	94.8	ns
Multirace	508	522	97.3	88.9	105.8	560	608	92.1	84.5	99.7	ns
Maternal Age Group											
Under 15	0	0	0.0	0.0	0.0	2	2	DSU	-----	-----	ns
15 - 19	909	929	97.8	91.5	104.2	1,079	1,123	96.1	90.3	101.8	Sig. +
20 - 24	8,031	8,261	97.2	95.1	99.3	8,816	9,225	95.6	93.6	97.6	Sig. +
25 - 29	13,531	13,983	96.8	95.1	98.4	14,632	15,567	94.0	92.5	95.5	ns
30 - 34	15,947	16,476	96.8	95.3	98.3	16,864	18,005	93.7	92.2	95.1	ns
35 and over	13,437	13,822	97.2	95.6	98.9	14,587	15,509	94.1	92.5	95.6	ns

SOURCE: California Department of Health Services, Center for Health Statistics, Birth Statistical Master Files, 2004-2005.

NOTES: ¹ Repeat Cesarean sections among California females having "low-risk" (full-term, singleton, vertex presentation) births.

² Live births among California females who had prior Cesarean delivery and are having "low-risk" (full term, singleton, vertex presentation) births.

³ Rate per 100 low-risk live births among females who have had previous Cesarean birth (percent).

⁴ Ninety-five percent confidence interval (95% C.I.).

⁵ Statistically significant increase (Sig. +); Not statistically significant (ns).

DSU Data Statistically Unreliable based on small number of events; Relative Standard Error (RSE) > 23.0 percent.